

WHAT IS CLAIMED IS:

1. A multi-axial machine tool comprising:

a leg;

a portal bed disposed on an upper face of the leg;

5 a spindle head for rotatably supporting a spindle around
a spindle axis substantially in vertical for multi-axially
working to a work using a tool attached to the spindle,

a table unit detachably mounted on the upper face of the
leg so as to be accommodated inside of the bed, the table unit

10 including:

a table base fixed to the upper face of the leg,

a turning table turnably disposed on an inclined
turning surface of the table base formed so as to be inclined
in a descending manner toward a front side of the machine tool,

15 and

a work table supported on the turning table so as
to be turnable around an axis in parallel with the spindle axis
when the work table is located at a reference working position.

20 2. A multi-axial machine tool according to Claim 1, wherein
the inclined turning surface of the table base is inclined at
an angle of smaller than 45° with respect to the spindle axis.

3. A multi-axial machine tool according to Claim 1, wherein
25 there is formed a clearance between the inclined turning

surface of the table base and the portal bed, and the clearance is covered with a cover member.

4. A multi-axial machine tool for multi-axially working a work using a tool attached to a spindle, comprising:

a turning table turnably disposed on an inclined turning surface which is inclined in a descending manner toward a front side of the machine tool at an angle of smaller than 45° with respect to a axis of the spindle; and

a work table supported on the turning table, the work table being turnable around an axis substantially in parallel with the axis of the spindle when the turning table is located at a reference working position.

5. A mounting and detaching jig for mounting and detaching a table unit with respect to a multi-axial machine tool having a leg and a portal bed, comprising:

a support member to be inserted between a upper face of the leg and a lower face of the table unit from a front side of the machine tool, and

a lift mechanism for raising and lowering the support member,

in the case that the table unit is detached from the machine tool, after the table unit is detached from the upper face of the leg, the support member is raised to thereby move

the table unit onto the support member, and the table unit is then moved outwardly of the portal bed; and,

in case the table unit is mounted on the table unit, the table unit placed onto the support member held at a raised position is moved to a mounting position, the support member is then lowered so that the table unit is placed onto a surface of the leg, so that the table unit is fixed to the surface of the leg.